

# Work Order ID 84562

May-16-12 11:29:48 AM

**\*84562\***

Page 1

Item ID: D350-561-143

Accept

**\*N900040100\***

Setup Start **\*NS1\***

Revision ID:

Stop **\*NS2\***

Item Name: Dual Cargo Mirror Installation, RH

Start Date: 5/16/12 Start Qty: 1.00 **\*1\***

Cust Item ID:

Required Date: 5/17/12 Req'd Qty: 1.00 **\*1\***

Customer:

Reference: rework-ECN10-583

Approvals: Process Plan: W Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Run Start **\*NR1\***

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Stop **\*NR2\***

| Sequence ID/<br>Work Center ID | Operation<br>Description | Set Up/<br>Run Hours | Tool ID | Tool # | Plan<br>Code | Accept<br>Qty | Reject<br>Qty | Reject<br>Number | Insp.<br>Stamp |
|--------------------------------|--------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|
|--------------------------------|--------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|

| Draw Nbr | Revision Nbr |
|----------|--------------|
| D350-561 | Rev D        |

|                  |  |      |  |  |  |  |  |  |  |
|------------------|--|------|--|--|--|--|--|--|--|
| 100              | DOCUMENT CONTROL   | 0.00 |  |  |  |  |  |  |  |
| <b>*100*</b>     |  |      |  |  |  |  |  |  |  |
| DC               | Memo   | 0.00 |  |  |  |  |  |  |  |
| Document Control | Photocopy bluefile and create labels per PPP D350-561-143 CHG003 |      |  |  |  |  |  |  |  |

12-06-13  
JG for MCT 12-6-5  
(JUST LABEL)

|              |   |      |  |  |  |  |  |  |  |
|--------------|---|------|--|--|--|--|--|--|--|
| 105          | Pick Kit  | 0.00 |  |  |  |  |  |  |  |
| <b>*105*</b> |   |      |  |  |  |  |  |  |  |
| Packaging    | Memo  | 0.00 |  |  |  |  |  |  |  |
| Packaging    | PULL FROM HK TO UPDATE TO CHG003:<br>1 X D350-561-143 B40130<br>ADD TO KIT<br>1 X DSI 9379-013 B <u>35210</u> |      |  |  |  |  |  |  |  |

12/6/13

|                 |   |      |  |  |  |  |  |  |  |
|-----------------|---|------|--|--|--|--|--|--|--|
| 110             | QC4- 100% Inspect kits for completeness | 0.00 |  |  |  |  |  |  |  |
| <b>*110*</b>    |   |      |  |  |  |  |  |  |  |
| QC              | Memo                                    | 0.00 |  |  |  |  |  |  |  |
| Quality Control |   |      |  |  |  |  |  |  |  |

12-06-13

|  |                        |     |         |   |  |
|--|------------------------|-----|---------|---|--|
| <b>DART</b><br>Dart Aerospace Ltd.<br>1270 ABERDEEN ST.<br>HAWKESBURY, ONT. CANADA K6A 4K7 |                        |     |         | TC APPROVAL #09-89<br>TEL: 1-813-632-5200 |  |
| P/N  | D350-561-143           | Q/C | CHG001  |   |  |
| DESC.  | Dual Cargo Mirror Assy | S/C | SH91-20 |   |  |
| LOT  | B40130                 | S/C | SH856NE |   |  |
| MODEL  | AS350/355              | S/C |         |   |  |
| MADE IN CANADA   |                        |     |         |   |  |

# Work Order ID 84562

\*84562\*

Page 2

May-16-12 11:29:48 AM

Item ID: D350-561-143 Accept \*N900040100\* Setup Start \*NS1\*  
 Revision ID: Stop \*NS2\*  
 Item Name: Dual Cargo Mirror Installation, RH  
 Start Date: 5/16/12 Start Qty: 1.00 \*1\* Cust Item ID:  
 Required Date: 5/17/12 Req'd Qty: 1.00 \*1\* Customer:  
 Reference: rework-ECN10-523

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start \*NR1\*  
 QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop \*NR2\*

| Sequence ID/<br>Work Center ID | Operation<br>Description  | Set Up/<br>Run Hours | Tool ID | Tool # | Plan<br>Code | Accept<br>Qty | Reject<br>Qty | Reject<br>Number | Insp.<br>Stamp |
|--------------------------------|---|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|
| 120                            |   | 0.00                 |         |        |              |               |               |                  |                |
| *120*                          | Packaging   |                      |         | Loe 41 |              | (K)           |               | 12/4/13          |                |
| Packaging                      | Memo  | 0.00                 |         |        |              |               |               |                  |                |
| Packaging                      | REPACKAGE PER PPP USING NEW B/N<br>NEW LABELS AND PAPERWORK REQ'D |                      |         |        |              |               |               |                  |                |
|                                | Identify and pack for shipping as per PPP D350-561-143            |                      |         |        |              |               |               |                  |                |
| 130                            | QC21- Final Inspection - Work Order Release                       | 0.00                 |         |        |              |               |               |                  |                |
| *130*                          |   |                      |         |        |              |               |               |                  |                |
| QC                             | Memo  | 0.00                 |         |        |              |               |               |                  |                |
| Quality Control                |   |                      |         |        |              |               |               |                  |                |

12/6/14 [Signature]  
 MF  
 12-06-13

# Picklist Print

May-16-12 11:30:39 AM

Page 1

Work Order ID: 84562

Parent Item: D350-561-143

Start Date: 5/16/12

Required Date: 5/17/12

Parent Item Name: Dual Cargo Mirror Installation, RH

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP A 07.07.26 new issue (DSI9379) EC verified by:JLM IPP rev B 10.02.16 per ecn 10-523 EC verified by: DD

| Component Item ID/<br>Item Name                    | Replacement<br>Item ID | Mfg/<br>Purch | Bin<br>Item | Primary<br>Location | Last<br>Location | Route<br>Seq ID | Unit of<br>Measure | Qty on<br>Hand | Qty per Kit | Total<br>Qty | Qty<br>Issued | Date<br>Issued | Status |
|--|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|--------------|---------------|----------------|--------|
| D350-561-143<br>Dual Cargo Mirror Installation, RH |                        | Manufactured  | No          |                     |                  |                 | Each               | 3.0000         |             | 640/30       | 1             | B84562         | ✓      |
|  |                        |               |             | <u>Location</u>     |                  |                 |                    |                |             |              |               |                |        |
|  |                        |               |             | FG041               |                  |                 |                    | 3              |             |              |               |                |        |
|  |                        |               |             | 75797               |                  |                 |                    | 1              |             |              |               |                |        |
| DSI 9379-013<br>Cargo Mirror Upgrade               |                        | Manufactured  | No          | 81274               |                  |                 |                    | 2              |             |              |               |                |        |
|  |                        |               |             |                     |                  |                 | Each               | 0.0000         |             |              |               |                |        |
|  |                        |               |             |                     |                  |                 |                    |                |             | 1            |               | B85210         | ✓      |

84562

Page 1 of 1[illegible]

H:\forms\engineer\approved forms\CHGREC revA

# **ENGINEERING CHANGE NOTICE** **DART AEROSPACE LTD**

|                            |          |                                |                                 |                |
|----------------------------|----------|--------------------------------|---------------------------------|----------------|
| Date: 10.02.16             | Job No.: | ADR Yes/No: N                  | ADR Date:                       | ECN #: 10- 523 |
| Product No.: D350-561      |          | Created By: CP                 | Approved By: <i>[Signature]</i> |                |
| Product Name: Cargo Mirror |          | Checked By: <i>[Signature]</i> | General Manager Approval:       |                |

| Distribution                  | Reqd | Resp  | Initial / Date     |
|-------------------------------|------|-------|--------------------|
| Production Manager / Coord.   | Y    | LL    | <i>LL 10-2-16</i>  |
| Production Document Control   | Y    | BG    | <i>BG 10-2-16</i>  |
| Purchasing Coord.             | N    |       |                    |
| Production Engineering Coord. | Y    | EC/DA | <i>EC 10.02.16</i> |

| Distribution               | Reqd | Resp | Initial / Date     |
|----------------------------|------|------|--------------------|
| DQA / QA Coord.            | N    |      |                    |
| QC Coordinator             | Y    | SM   | <i>SM 10.02.17</i> |
| Customer Technical Support | Y    | DS   | <i>DS 10.03.03</i> |
| Marketing                  | Y    | SW   | <i>SW 10.02.16</i> |
| Customer Order Processing  | N    |      |                    |

**Reason for Change:**  
Cracking clamps

**Documents Affected:**  
Release:  
DSI 9379 Rev. C  
D4070 Rev. A

**PARTS MUST COMPLY** ☒ **PREVIOUS PARTS SATISFACTORY** ☐

| # | Quality Assurance Actions | Reqd | Resp | Notes | Complete |
|---|---------------------------|------|------|-------|----------|
| 1 | Notify Previous Customers | N    |      |       |          |
| 2 | Notify Eurocopter France  | N    |      |       |          |
| 3 |                           |      |      |       |          |

| # | Engineering Actions                      | Reqd | Resp | Notes | Complete        |
|---|--|------|------|-------|-----------------|
| 4 | Required Documents/Drawings Under Review | Y    | KJ   |       | <i>10.02.16</i> |
| 5 | Update Master Document List (MDL)        | N    |      |       |                 |
| 6 | Update Product Compatibility Matrix      | N    |      |       |                 |
| 7 | Create Eurocopter Form (FEE)             | N    |      |       |                 |
| 8 | Notify TC / FAA of Change                | N    |      |       |                 |
| 9 |  |      |      |       |                 |

| #  | Document Control Actions                                | Reqd | Resp | Notes      | Complete        |
|----|---|------|------|------------|-----------------|
| 10 | Move Electronic Files                                   | Y    | KJ   |            | <i>10.02.16</i> |
| 11 | Update Blue/Pink/DSI Folder and Electronic Files        | Y    | KJ   |            | <i>10.02.16</i> |
| 12 | Update Controlled PDF Files                             | Y    | KJ   |            | <i>10.02.16</i> |
| 13 | Update Document Record (DR)                             | Y    | KJ   |            | <i>10.02.16</i> |
| 14 | Update Product Development Summary                      | N    |      |            |                 |
| 15 | Update QSI 021 and/or STC Approval List                 | N    |      |            |                 |
| 16 | Update Parts / STC Database                             | Y    | KJ   |            | <i>10.02.16</i> |
| 17 | Update / Verify ARC Database                            | Y    | KJ   | <i>#13</i> | <i>10.02.16</i> |
| 18 | Create / Update Change Record Form / Item Card Database | Y    | KJ   |            | <i>10.02.16</i> |
| 19 | Create / Update PPP's                                   | Y    | KJ   |            | <i>10.02.16</i> |
| 20 | Update Document Control Database / Laminated Dwgs       | N    |      |            |                 |
| 21 | Update Grey Project / Electronic Binder PDF Files       | Y    | KJ   |            | <i>10.02.16</i> |
| 22 | Update D-Part/M-Drawing/DSI/DEO Master Binders          | Y    | KJ   |            | <i>10.02.16</i> |
| 23 |   |      |      |            |                 |
| 24 |   |      |      |            |                 |

**Description / Action:**  
 - D350-561-141/-143 @ CHG 003  
 - D4070-041, new clamp  
 - Update -141/-143 kits in stock with DSI-9379-013 kits and DSI paperwork  
 - ENG needs to do test fit with clamp, try fit before powder coating clamp  
*DSI-9379-013, new kit @ CHG 001*

ECN Verified & Complete: *[Signature]*

Date: *10/4/12*

# DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS D350-561 REV. C

REF. CANADIAN STC: SH91-20 ISSUE 2

REF. FAA STC: SH856NE

To reduce vibration, Dart has developed the D350-561-141/-143 Mirror Installations to replace the D350-561-041/-043 Mirror Installations. For customers with D350-561-041/-043 Mirror Installations at CHG 005 or earlier who would like to upgrade their installation, the DSI 9379-011 Upgrade Kit can be obtained from Dart. The components for DSI 9379-011 Kit are as defined in Section 1.0 below.

Customers upgrading their installation from D350-561-041/-043 to D350-561-141/-143 should follow instructions given in Figures 1 through 5 of DSI 9379 and refer to Installation Instructions D350-561 Rev. C as applicable.

Customers who are installing a D350-561-141/-143, should refer to Figures 2 through 5 of DSI 9379 and refer to Installation Instructions D350-561 Rev. C as applicable.

This service instruction details the D350-561-141/-143 kits at CHANGE 003 or later, which use D4070-041 Clamps (replaces MS21919WDG7 clamps). For -141/-143 kits at earlier change numbers, the DSI-9379-013 Upgrade kit is available to replace the mil-spec clamps with more robust D4070-041 Clamps.

## 1.0 PARTS LIST

| Qty<br>-141 | Qty<br>-143 | Qty<br>-045 | Qty<br>-011 | Qty<br>-013 | Part Number  | Description                                |
|-------------|-------------|-------------|-------------|-------------|--------------|--|
| X           | 1           |             |             |             | D350-561-141 | SINGLE MIRROR INSTALLATION (REPLACES -041) |
|             | X           |             |             |             | D350-561-143 | DUAL MIRROR INSTALLATION (REPLACES -043)   |
|             | 1           | X           |             |             | D350-561-045 | MIRROR KIT                                 |
|             |             |             | X           |             | DSI-9379-011 | UPGRADE KIT                                |
|             |             |             |             | X           | DSI-9379-013 | UPGRADE KIT                                |
| 1           |             | 1           |             |             | D2011-101    | MIRROR                                     |
| 1           |             |             |             |             | D2012-105    | ARM  |
| 1           |             |             |             |             | D2012-107    | CLEVIS                                     |
| 1           |             |             |             |             | D2012-111    | BRACKET                                    |
|             |             | 2           |             |             | D2012-113    | CLAMP                                      |
| 1           |             |             |             |             | D2012-115    | BRACKET                                    |
| 2           |             |             |             |             | D2022-101    | SPACER                                     |
| 1*          |             | 1*          |             |             | D3014-1      | LOCKNUT                                    |
| 1           |             |             | 1           |             | D3629-1      | BRACKET                                    |
| 1           |             |             | 1           |             | D3635-1      | GASKET                                     |
| 2           |             |             | 2           |             | D3635-3      | GASKET                                     |
| 1           |             |             | 1           |             | D3646-1      | ARM  |
| 1           |             |             | 1           |             | D3646-3      | ARM  |
| 2           |             |             | 2           | 2           | D4070-041    | CLAMP                                      |
| 3           |             |             | 3           |             | AN3-4A       | BOLT                                       |
| 1           |             |             |             |             | AN3-6A       | BOLT                                       |
| 3           |             |             | 2           | 2           | AN4-5A       | BOLT                                       |
| 1           |             |             |             |             | AN4-10A      | BOLT                                       |
| 8           |             |             | 6           |             | AN960JD10    | WASHER                                     |
| 8           |             |             | 4           | 4           | AN960JD416   | WASHER                                     |
| 1*          |             | 1*          |             |             | AN960JD416L  | WASHER                                     |
| 4           |             |             | 3           |             | MS21042L3    | NUT (OR MS21042-3)                         |
| 4           |             |             | 2           | 2           | MS21042L4    | NUT (OR MS21042-4)                         |

\*INCLUDED AS PART OF D2011-101 MIRROR

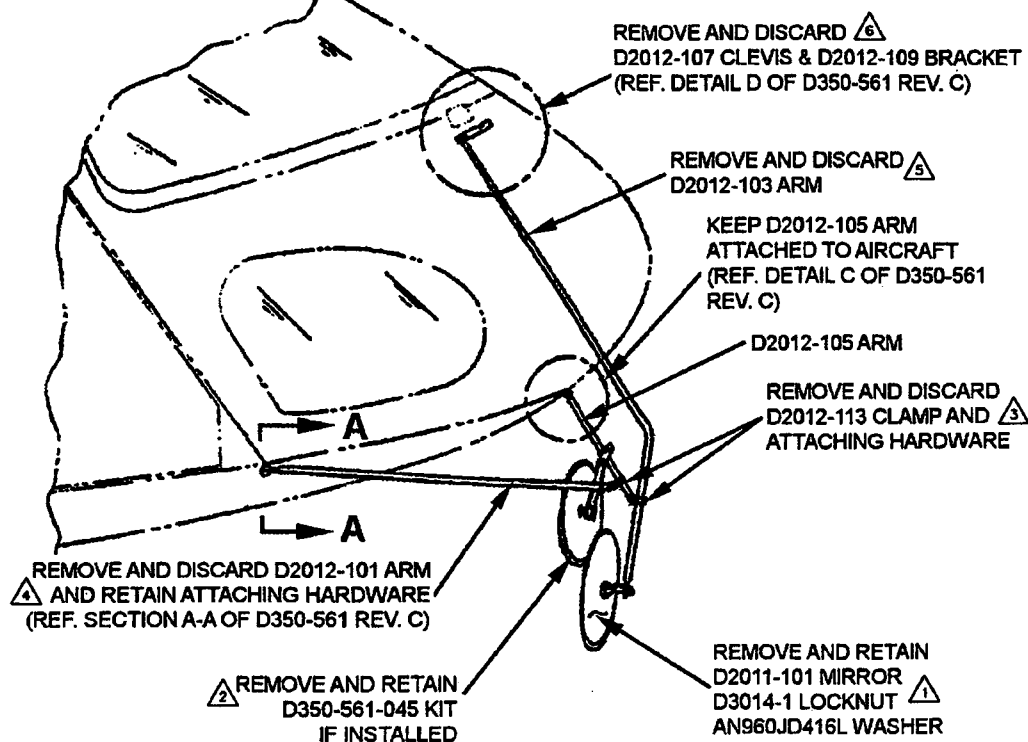
CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

APPROVED

BY: *[Signature]*  
D. SHEPHERD (DE # 02)

DATE: 10.02.12  
CERT. NO.: SH91-20  
ISSUE NO.: 2

|            |                             |  |              |
|------------|-----------------------------|--|--------------|
| C          | D4070-041 WAS MS21919WDG7   | CP   | 10.02.12     |
| B          | MS21919WDG7 WAS MS21929WDG7 | DC   | 07.11.28     |
| A          | NEW ISSUE                   | MB   | 07.07.10     |
| REV.       | DESCRIPTION                 | BY   | DATE         |
| DESIGN     | <i>[Signature]</i>          | <b>DART AEROSPACE LTD</b><br>HAWKESBURY, ONTARIO, CANADA   |              |
| DRAWN      | <i>[Signature]</i>          |  |              |
| CHECKED    | <i>[Signature]</i>          | DRAWING NO.  | REV. C       |
| MFG. APPR. | N/A                         | DSI 9379   | SHEET 1 OF 5 |
| APPROVED   | <i>[Signature]</i>          | TITLE  | SCALE        |
| DE APPR.   | <i>[Signature]</i>          | CARGO MIRROR UPDRAGE KIT   | NTS          |
| DATE       | 10.02.12                    | COPYRIGHT © 2007 BY DART AEROSPACE LTD<br>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD. |              |



**FIGURE 1: REMOVAL OF D350-561-041/-043  
FOR CONVERSION TO D350-141/-143**

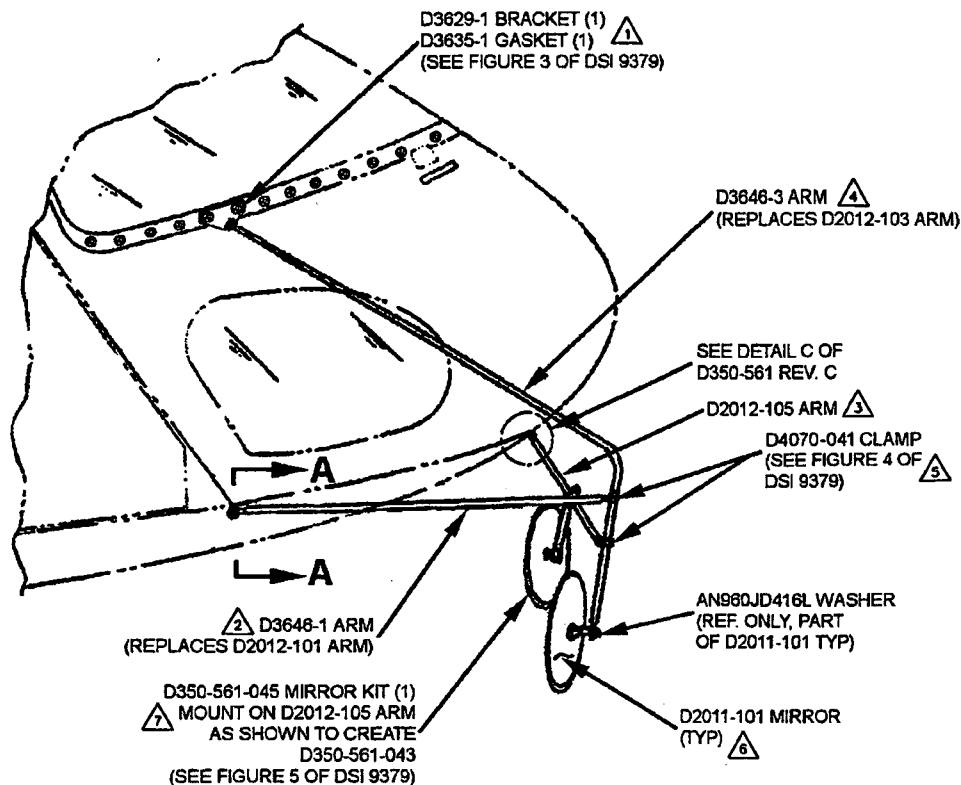
**2.0 REMOVAL (IF CONVERTING FROM -041/-043 TO -141/-143 USING  
DSI 9379-011)**

- 1) REMOVE AND RETAIN D2011-101 MIRROR AND ATTACHING FASTENERS.
- 2) REMOVE AND RETAIN D350-561-045 KIT.
- 3) REMOVE AND DISCARD D2012-113 CLAMPS AND ATTACHING  
HARDWARE (2 PLACES).
- 4) REMOVE AND DISCARD D2012-101 ARM. LEAVE D2012-115 BRACKET  
AND HARDWARE ATTACHED TO THE AIRCRAFT.
- 5) REMOVE AND DISCARD D2012-103 ARM.
- 6) REMOVE AND DISCARD D2012-107 CLEVIS. AT THE INSTALLER'S  
DISCRETION, THE D2012-109 BRACKET CAN BE REMOVED OR CAN  
REMAIN INSTALLED. WHETHER OR NOT THE D2012-109 BRACKET IS  
BEING REMOVED, ENSURE BOTH SCREWS ARE RE-INSTALLED.

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

APPROVED  
BY: *[Signature]*  
D. SHEPHERD (DE # 02)  
DATE: 10.02.12  
CERT. NO.: SH91-20  
ISSUE NO.: 2

|            |                    |  |              |
|------------|--------------------|--|--------------|
| DESIGN     | <i>[Signature]</i> | <b>DART AEROSPACE LTD</b>  |              |
| DRAWN      | <i>[Signature]</i> | HAWKESBURY, ONTARIO, CANADA  |              |
| CHECKED    | <i>[Signature]</i> | DRAWING NO.  | REV. C       |
| MFG. APPR. | N/A                | DSI 9379   | SHEET 2 OF 5 |
| APPROVED   | <i>[Signature]</i> | TITLE  | SCALE        |
| DE APPR.   | <i>[Signature]</i> | CARGO MIRROR UPDRAGE KIT   | NTS          |
| DATE       | 10.02.12           | COPYRIGHT © 2007 BY DART AEROSPACE LTD<br>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS<br>NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT<br>WRITTEN PERMISSION FROM DART AEROSPACE LTD. |              |



**FIGURE 2: D350-561-141/-143 INSTALLATIONS**

### 3.0 INSTALLATION

- 1) INSTALL D3629-1 BRACKET AND D3635-1 GASKET USING EXISTING SCREWS ON WINDOW. IT IS ACCEPTABLE TO SUBSTITUTE SCREWS WITH LONGER SCREWS OF SAME TYPE.
- 2) INSTALL D3646-1 ARM PER SECTION A-A OF D350-561 REV. C. **NOTE:** D3646-1 REPLACES D2012-101.
- 3) INSTALL D2012-105 ARM PER DETAIL C OF D350-561 REV. C.
- 4) INSTALL D3646-3 ARM. **NOTE:** D3646-3 REPLACES D2012-103.
- 5) ATTACH D3646-1 ARM AND D2012-105 ARM TO D3646-3 ARM USING D4070-041 CLAMPS.
- 6) MOUNT D2011-101 MIRROR ONTO D2012-103 ARM.
- 7) IF INSTALLING THE D350-561-143 KIT, INSTALL D350-561-045 MIRROR KIT PER FIGURE 5 OF DSI 9379.

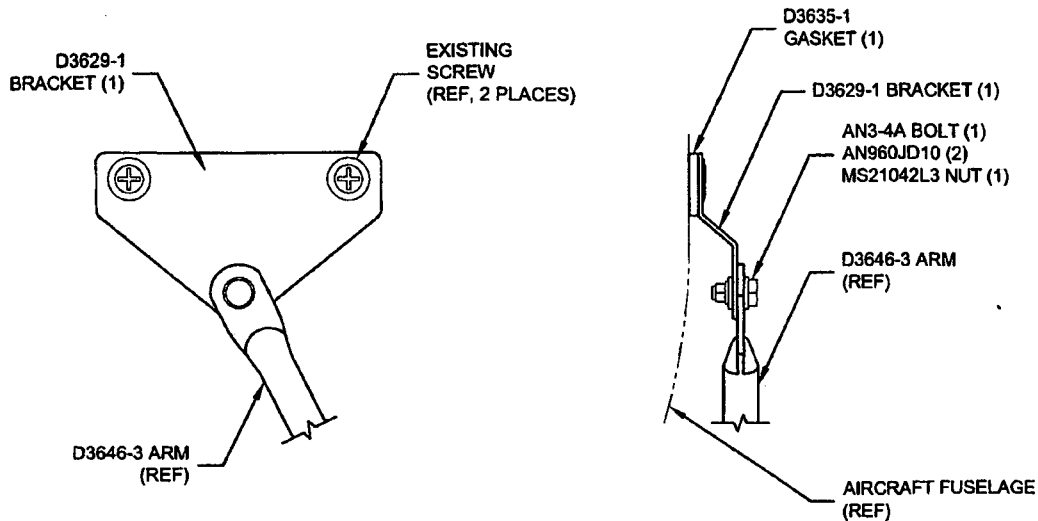
CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

**APPROVED**  
BY: *[Signature]*  
D. SHEPHERD (DE # 02)

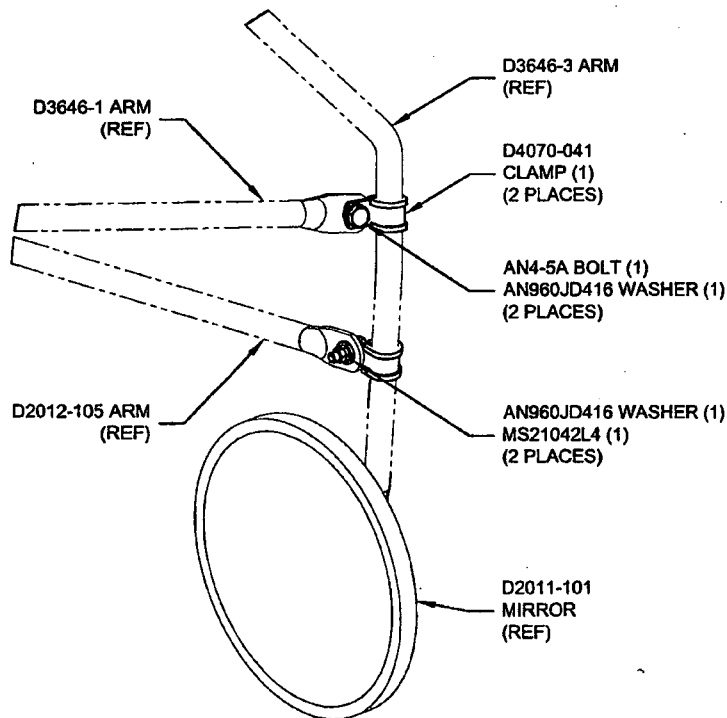
DATE: 10.02.12  
CERT. NO.: SH91-20  
ISSUE NO.: 2

|            |                    |  |              |
|------------|--------------------|--|--------------|
| DESIGN     |                    | <b>DART AEROSPACE LTD</b>  |              |
| DRAWN      | <i>[Signature]</i> | HAWKESBURY, ONTARIO, CANADA  |              |
| CHECKED    | <i>[Signature]</i> | DRAWING NO.  | REV. C       |
| MFG. APPR. | <i>[Signature]</i> | DSI 9379   | SHEET 3 OF 5 |
| APPROVED   | <i>[Signature]</i> | TITLE  | SCALE        |
| DE APPR.   | <i>[Signature]</i> | CARGO MIRROR UPDRAGE KIT   | NTS          |
| DATE       | 10.02.12           | COPYRIGHT © 2007 BY DART AEROSPACE LTD<br>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD. |              |





**FIGURE 3: D3629-1 BRACKET/D3646-3 ARM INSTALLATION**



**FIGURE 4: D4070-041 CLAMP INSTALLATION**

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO #01-O-01

APPROVED

BY: *[Signature]*  
D. SHEPHERD (DE #02)

DATE: 10.02.12  
CERT. NO.: SH91-20  
ISSUE NO.: 2

|            |                    |
|------------|--------------------|
| DESIGN     | <i>[Signature]</i> |
| DRAWN      | <i>[Signature]</i> |
| CHECKED    | <i>[Signature]</i> |
| MFG. APPR. | <i>[Signature]</i> |
| APPROVED   | <i>[Signature]</i> |
| DE APPR.   | <i>[Signature]</i> |

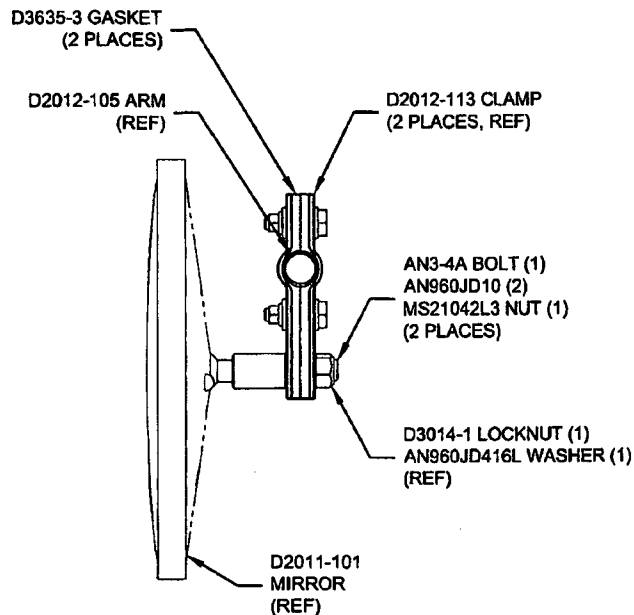
DATE 10.02.12

**DART AEROSPACE LTD**  
HAWKESBURY, ONTARIO, CANADA

DRAWING NO. REV. C  
DSI 9379 SHEET 4 OF 5

TITLE SCALE  
CARGO MIRROR UPDRAGE KIT NTS

COPYRIGHT © 2007 BY DART AEROSPACE LTD  
THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS  
NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT  
WRITTEN PERMISSION FROM DART AEROSPACE LTD.



**FIGURE 5: D350-561-045 INSTALLATION**

#### 4.0 WEIGHT AND BALANCE

The following is the weight and balance information for the **D350-561-141 Single Mirror Kit** and the **D350-561-143 Dual Mirror Kit**.

| Installation   | Weight           | LATERAL             |                           | LONGITUDINAL     |                         |
|--|------------------|---------------------|---------------------------|------------------|-------------------------|
|  |                  | Arm                 | Moment                    | Arm              | Moment                  |
| <b>D350-561-141</b><br><b>Single Mirror Installation</b> | 2.5 lb<br>1.1 kg | +36.1 in<br>+0.92 m | +90.3 in-lb<br>+1.0 m-kg  | 9.0 in<br>0.23 m | 22.5 in-lb<br>0.25 m-kg |
| <b>D350-561-143</b><br><b>Dual Mirror Installation</b>   | 3.2 lb<br>1.5 kg | +36.1 in<br>+0.92 m | +115.5 in-lb<br>+1.4 m-kg | 8.8 in<br>0.22 m | 28.2 in-lb<br>0.33 m-kg |

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

APPROVED  
BY: *[Signature]*  
D. SHEPHERD (DE # 02)

DATE: 10.02.12  
CERT. NO.: SH91-20  
ISSUE NO.: 2

|            |                    |  |              |
|------------|--------------------|--|--------------|
| DESIGN     | <i>[Signature]</i> | <b>DART AEROSPACE LTD</b>  |              |
| DRAWN      | <i>[Signature]</i> | HAWKESBURY, ONTARIO, CANADA  |              |
| CHECKED    | <i>[Signature]</i> | DRAWING NO.  | REV. C       |
| MFG. APPR. | <i>[Signature]</i> | DSI 9379   | SHEET 5 OF 5 |
| APPROVED   | <i>[Signature]</i> | TITLE  | SCALE        |
| DE APPR.   | <i>[Signature]</i> | CARGO MIRROR UPDRAGE KIT   | NTS          |
| DATE       | 10.02.12           | <small>COPYRIGHT © 2007 BY DART AEROSPACE LTD<br/>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small> |              |

Date: Monday, 30/06/2008 9:12:26 AM  
User: Linda Lacelle

## Process Sheet

|                       |  |                  |                              |
|-----------------------|--|------------------|------------------------------|
| Customer              | : CU-DAR001 Dart Helicopters Services                    | Drawing Name     | : DUAL MIRROR INSTALLATION   |
| Job Number            | : 40130  |                  |                              |
| Estimate Number       | : 12979  |                  |                              |
| P.O. Number           | :  | Part Number      | : D350561143                 |
| This Issue            | : 30/06/2008 S.O. No. :                                  | Drawing Number   | : N/A                        |
| Prsht Rev.            | : NC   | Project Number   | : N/A                        |
| First Issue           | : / / Type : SMALL /MED FAB                              | Drawing Revision | : N/A                        |
| Previous Run          | : 39256  | Material         | :                            |
| Written By            | : <u>W</u>   | Due Date         | : 07/07/2008 Qty: 5 Um: Each |
| Checked & Approved By | : <u>W</u>   |                  |                              |
| Comment               | : Est. A 07.07.26 new issue (DSI9379) EC verified by:JLM |                  |                              |

## Additional Product

Job Number:



|         |                       |               |
|---------|-----------------------|---------------|
| Seq. #: | Machine Or Operation: | Description : |
|---------|-----------------------|---------------|

|     |    |                  |
|-----|----|------------------|
| 1.0 | DC | DOCUMENT CONTROL |
|-----|----|------------------|



Comment: DOCUMENT CONTROL

Photocopy bluefile and create labels per PPP D350-561-143 CHG001

08/07/03

08/07/03

|     |        |                            |
|-----|--------|----------------------------|
| 2.0 | 40130A | SINGLE MIRROR INSTALLATION |
|-----|--------|----------------------------|



Comment: Sub-Component SINGLE MIRROR INSTALLATION

1 x D350-561-141 Batch 40130A

SP

|     |        |                           |
|-----|--------|---------------------------|
| 3.0 | 40130B | DUAL MIRROR ACCESSORY KIT |
|-----|--------|---------------------------|



Comment: Sub-Component DUAL MIRROR ACCESSORY KIT

1x D350-561-045 Batch 40130B

SP

|     |     |                                    |
|-----|-----|------------------------------------|
| 4.0 | QC4 | INSPECT 100% KITS FOR COMPLETENESS |
|-----|-----|------------------------------------|



Comment: INSPECT 100% KITS FOR COMPLETENESS

09/07/03

09/07/03

|     |             |                       |
|-----|-------------|-----------------------|
| 5.0 | PACKAGING 1 | PACKAGING RESOURCE #1 |
|-----|-------------|-----------------------|



Comment: PACKAGING RESOURCE #1

Identify and pack for shipping as per PPP D350-561-143

REV A

08/11/03 (5)

|     |      |                              |
|-----|------|------------------------------|
| 6.0 | QC21 | FINAL INSPECTION/W/O RELEASE |
|-----|------|------------------------------|



Comment: FINAL INSPECTION/W/O RELEASE

08/07/08

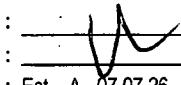
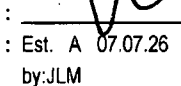
Job Completion



08/07/07

Date: Monday, 30/06/2008 9:12:53 AM  
 User: Linda Lacelle

## Process Sheet

|                                  |   |                         |                              |
|----------------------------------|---|-------------------------|------------------------------|
| <b>Customer</b>                  | : CU-DAR001 Dart Helicopters Services   | <b>Drawing Name</b>     | : SINGLE MIRROR INSTALLATION |
| <b>Job Number</b>                | : 40130A  |                         |                              |
| <b>Estimate Number</b>           | : 12978   |                         |                              |
| <b>P.O. Number</b>               | :   | <b>Part Number</b>      | : D350561141                 |
| <b>This Issue</b>                | : 30/06/2008  | <b>S.O. No.</b>         | :                            |
| <b>Prsht Rev.</b>                | : NC  | <b>Drawing Number</b>   | : N/A                        |
| <b>First Issue</b>               | : / /   | <b>Project Number</b>   | : N/A                        |
| <b>Previous Run</b>              | : 39256A  | <b>Drawing Revision</b> | : N/A                        |
| <b>Written By</b>                | :  | <b>Material</b>         | :                            |
| <b>Checked &amp; Approved By</b> | :  | <b>Due Date</b>         | : 07/07/2008                 |
| <b>Comment</b>                   | : Est. A 07.07.26 new issue (DSI9379) EC verified by:JLM                            |                         |                              |

Qty: 5 Um: Each

## Additional Product

Job Number:



| Seq. #: | M | ie C | ation: | Description : |
|---------|---|------|--------|---------------|
|---------|---|------|--------|---------------|

1.0

DOCUMENT CONTROL



Comment: DOCUMENT CONTROL

Photocopy bluefile and create labels per PPP D350-561-141 CHG001

N/A XJ

2.0

D2011101

6" Mirror



Comment: Qty.: 1.0000 Each(s)/Unit Total: 5.0000 Each(s)

Mirror 6"

Batch: 39555

SJP

3.0

D2012105

Arm



Comment: Qty.: 1.0000 Each(s)/Unit Total: 5.0000 Each(s)

Arm (31.06)

Batch: 37042

39257

SJP

4.0

D2012107

Clevis



Comment: Qty.: 1.0000 Each(s)/Unit Total: 5.0000 Each(s)

Clevis

Batch: 33585

SJP

5.0

D2012111

Bracket



Comment: Qty.: 1.0000 Each(s)/Unit Total: 5.0000 Each(s)

Bracket

Batch: 38936

8/7/2

SJP

Date: Monday, 30/06/2008 9:12:53 AM  
User: Linda Lacelle

## Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: SINGLE MIRROR INSTALLATION

Job Number: 40130A

Part Number: D350561141

Job Number:



Seq. #:

Machine Or Operation:

Description :

6.0

D2012115

Bracket, Clevis



Comment: Qty.: 1.0000 Each(s)/Unit Total : 5.0000 Each(s)

Bracket, Clevis

Batch: 35581

20803

SP

7.0

D2022101

Spacer



Comment: Qty.: 2.0000 Each(s)/Unit Total : 10.0000 Each(s)

Spacer

Batch: 37521

SP

8.0

D36291

Bracket



Comment: Qty.: 1.0000 Each(s)/Unit Total : 5.0000 Each(s)

BRACKET

Batch: 38942

SP

9.0

D36351

Gasket



Comment: Qty.: 1.0000 Each(s)/Unit Total : 5.0000 Each(s)

GASKET

Batch: 40131

SP

10.0

D36353

Gasket



Comment: Qty.: 2.0000 Each(s)/Unit Total : 10.0000 Each(s)

GASKET

Batch: 37094

40192

8/7/2

SP

11.0

D36461

Arm



Comment: Qty.: 1.0000 Each(s)/Unit Total : 5.0000 Each(s)

ARM

Batch: 38943

SP

12.0

D36463

Arm



Comment: Qty.: 1.0000 Each(s)/Unit Total : 5.0000 Each(s)

ARM

Batch: 38944

8/7/1

SP

Date: Monday, 30/06/2008 9:12:53 AM  
User: Linda Lacelle

## Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: SINGLE MIRROR INSTALLATION

Job Number: 40130A

Part Number: D350561141

Job Number:



Seq. #:

Machine Or Operation:

Description :

13.0

AN34A

Bolt



Comment: Qty.: 3.0000 Each(s)/Unit Total : 15.0000 Each(s)

Bolt

Batch: 103641

50

14.0

AN35A

Bolt



Comment: Qty.: 2.0000 Each(s)/Unit Total : 10.0000 Each(s)

Bolt

Batch: 100188

50

15.0

AN36A

Bolt



Comment: Qty.: 1.0000 Each(s)/Unit Total : 5.0000 Each(s)

Bolt

Batch: 106662

50

16.0

AN45A

Bolt



Comment: Qty.: 1.0000 Each(s)/Unit Total : 5.0000 Each(s)

Bolt

Batch: 100857

50

17.0

AN410A

Bolt



Comment: Qty.: 1.0000 Each(s)/Unit Total : 5.0000 Each(s)

Bolt

Batch: 105442

50

18.0

AN960JD10

Washer



Comment: Qty.: 12.0000 Each(s)/Unit Total : 60.0000 Each(s)

Washer

Batch: 108077

50

19.0

AN960JD416

Washer



Comment: Qty.: 4.0000 Each(s)/Unit Total : 20.0000 Each(s)

Washer

Batch: 107939

8/7/1

50

50

Date: Monday, 30/06/2008 9:12:53 AM  
User: Linda Lacelle

## Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: SINGLE MIRROR INSTALLATION

Job Number: 40130A

Part Number: D350561141

Job Number:



Seq. #:

Machine Or Operation:

Description :

20.0

MS21042L3

Nut



Comment: Qty.: 6.0000 Each(s)/Unit Total : 30.0000 Each(s)

Nut

Batch: 107665

SC

21.0

MS21042L4

Nut



Comment: Qty.: 2.0000 Each(s)/Unit Total : 10.0000 Each(s)

Nut

Batch: 107478

SC

22.0

MS21919WDG7

Clamp



Comment: Qty.: 2.0000 Each(s)/Unit Total : 10.0000 Each(s)

CLAMP

Batch: 16323

106074

8/7/1

5x

SC

23.0

QC4

INSPECT 100% KITS FOR COMPLETENESS



Comment: INSPECT 100% KITS FOR COMPLETENESS

00/02/03

24.0

PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Identify and pack for shipping as per PPP D350-561-141

PPP 40130

08/07/08

25.0

QC21

FINAL INSPECTION/W/O RELEASE



Comment: FINAL INSPECTION/W/O RELEASE

08/07/08

Job Completion



08/07/08